HEGENER CYNTRAL FAX GENTER JUN 3 0 2008

Listing of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-82. Cancelled

- 83. (Currently amended) A method of lowering cholesterol in a mammal in need thereof, wherein said mammal expresses a functional low density lipoprotein (LDL) receptor, said method comprising intravascularly administering to said mammal a replication-defective adenoviral vector comprising a nucleic acid molecule that encodes a secreted polypeptide having fewer than 299 amino acids residues, said secreted polypeptide consisting of a signal peptide and amino acid residues 1-185 of SEQ ID NO:2 or amino acid residues 1-185 of SEQ ID NO:2 and one or more of amino acids 186-259 of SEQ ID NO: 2, wherein said polypeptide, when expressed in said mammal, lowers the total serum cholesterol level without inducing hypertriglyceridemia.
- 84. (Previously presented) The method of claim 83, wherein said polypeptide has at least 90% sequence identity to amino acid residues 1-202 of SEQ ID NO:2.
- 85. (Previously presented) The method of claim 84, wherein said polypeptide has 100% sequence identity to amino acid residues 1-202 of SEQ ID NO:2.
- 86. (Previously presented) The method of claim 83, wherein said polypeptide has at least 90% sequence identity to amino acid residues 1-229 of SEQ ID NO:2.
- 87. (Previously presented) The method of claim 86, wherein said polypeptide has 100% sequence identity to amino acid residues 1-229 of SEQ ID NO:2.
- 88. (Previously presented) The method of claim 83, wherein said polypeptide has at least 90% sequence identity to amino acid residues 1-259 of SEQ ID NO:2.

- 89. (Previously presented) The method of claim 88, wherein said polypeptide has 100% sequence identity to amino acid residues 1-259 of SEQ ID NO:2.
- 90. (Previously presented) The method of claim 83, wherein said polypeptide has 100% sequence identity to amino acid residues 1-185 of SEQ ID NO:2.
- 91. (Previously presented) The method of claim 83, wherein said vector is administered intravenously.
- 92. (Previously presented) The method of claim 91, wherein said vector is administered in an artery at the site of a lesion.
- 93. (Previously presented) The method of claim 83, wherein said mammal lacks an endogenous, normally functioning apoE gene.
- 94. (Previously presented) The method of claim 83, wherein said mammal is at risk for developing atherosclerosis due to accumulation of lipoprotein remnants in the bloodstream.
- 95. (Previously presented) The method of claim 83, wherein said nucleic acid is administered to or expressed in the liver of said mammal.
 - 96. Canceled.
 - 97. Canceled.
- 98. (Previously presented) The method of claim 83, wherein said nucleic acid encodes amino acids 1-203 of an apoE preprotein of any one of SEQ ID Nos. 14-19.
- 99. (Previously presented) The method of claim 83, wherein said nucleic acid encodes amino acids 1-220 of an apoE preprotein of any one of SEQ ID Nos. 14-19.

- 100. (Previously presented) The method of claim 83, wherein said nucleic acid encodes amino acids 1-247 of an apoE preprotein of any one of SEQ ID Nos. 14-19.
 - 101. Canceled.
- 102. (New) A method of lowering cholesterol in a mammal in need thereof according to claim 83, wherein said polypeptide has an amino acid sequence that is at least 90% identical to the amino acid sequence of SEQ ID NO:2.
- 103. (New) A method of lowering cholesterol in a mammal in need thereof according to claim 83, wherein said polypeptide has fewer than 299 amino acids.
- 104. (New) A method of lowering cholesterol in a mammal in need thereof according to claim 83, wherein said polypeptide does not include amino acids 186-299 of SEQ ID NO:2.
- 105. (New) A method of lowering cholesterol in a mammal in need thereof according to claim 83, wherein said polypeptide does not include amino acids 230-299 of SEQ ID NO:2.
- 106. (New) A method of lowering cholesterol in a mammal in need thereof according to claim 83, wherein said polypeptide does not include amino acids 260-299 of SEQ ID NO:2.
- 107. (New) A method of lowering cholesterol in a mammal in need thereof, wherein said mammal expresses a functional low density lipoprotein (LDL) receptor, said method comprising intravascularly administering to said mammal a replication-defective adenoviral vector comprising a nucleic acid molecule that encodes a polypeptide comprising amino acid residues 1-185 of SEQ ID NO:2 and does not include amino acid residues 260-299 of SEQ ID NO:2, wherein said polypeptide, when expressed in said mammal, lowers the total serum cholesterol level without inducing hypertriglyceridemia.
 - 108. (New) The method of claim 107, wherein said polypeptide further comprises a

signal peptide.

- 109. (New) The method of claim 108, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO: 13.
- 110. (New) The method of claim 107, wherein said nucleic acid molecule encodes a secreted polypeptide comprising amino acid residues 1-277 of any one of SEQ ID Nos. 14-19.
- 111. (New) A method of lowering cholesterol in a mammal in need thereof, wherein said mammal expresses a functional low density lipoprotein (LDL) receptor, said method comprising intravascularly administering to said mammal a replication-defective adenoviral vector comprising a nucleic acid molecule that encodes a polypeptide consisting of amino acid residues 1-185, 1-202, 1-203, 1-229, 1-247 or 1-259 of any one of SEQ ID NOS.: 1-6, wherein said polypeptide, when expressed in said mammal, lowers the total serum cholesterol level without inducing hypertriglyceridemia.
- 112. (New) A method of lowering cholesterol in a mammal in need thereof, wherein said mammal expresses a functional low density lipoprotein (LDL) receptor, said method comprising intravascularly administering to said mammal a replication-defective adenoviral vector comprising a nucleic acid molecule that encodes a polypeptide having an amino acid sequence consisting of amino acid residues 1-259 of any one of SEQ ID NOS.:1-6 with one or more deletions of amino acids 186-259 thereof, wherein said polypeptide, when expressed in said mammal, lowers the total serum cholesterol level without inducing hypertriglyceridemia.
- 113. (New) A method of lowering cholesterol in a mammal in need thereof, wherein said mammal expresses a functional low density lipoprotein (LDL) receptor, said method comprising intravascularly administering to said mammal a replication-defective adenoviral vector comprising a nucleic acid molecule that encodes a secreted polypeptide consisting of amino acid residues 1-185, 1-202, 1-203, 1-229, 1-247 or 1-259 of any one of SEQ ID NOS.: 14-19, wherein said polypeptide, when expressed in said mammal, lowers the total serum cholesterol level without inducing hypertriglyceridemia.

114. (New) A method of lowering cholesterol in a mammal in need thereof, wherein said mammal expresses a functional low density lipoprotein (LDL) receptor, said method comprising intravascularly administering to said mammal a replication-defective adenoviral vector comprising a nucleic acid molecule that encodes a secreted polypeptide comprising amino acid residues 1-185 of SEQ ID NO:2 or amino acid residues 1-185 of SEQ ID NO:2 and one or more of amino acids 186-259 of SEQ ID NO: 2, wherein said polypeptide, when expressed in said mammal, lowers the total serum cholesterol level without inducing hypertriglyceridemia.